



# US Phase 2 CDR planning

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# CDR Overview

- ❖ Need to write a Phase 2 CDR for DOE CD1
  - Needed in ~November for director's review, Jan. operations review
- ❖ I have been asked to edit this by US ATLAS management
  - Hal would be the obvious choice, but he is very busy
- ❖ Even though November seems like a long ways away, we are not early getting started on this

We will need your help very soon/now to make this a success



# Contents

## ❖ Conceptual Design Review needs general description:

- Physics case
- Why we need to upgrade
- Performance requirements
- Overview of complete ATLAS Phase I program

I will organize these overall sections,  
although I will likely delegate some of this

## ❖ Each system needs to provide

- More detailed overview of overall upgrades, including performance targets
- Specific sections detailing each piece (WBS sections)
- Short section listing US involvement

Main focus should be on US (DOE) involvement,  
but must have enough context to make sense

## ❖ Motivated by layout of Phase 1 CDR

- Still need to check that DOE rules haven't changed in the meantime

<http://pages.iu.edu/~hgevans/temp/CDR.pdf>



# Organization

- ❖ Much can be stolen from existing documents
  - IDR
  - Scoping document
  - Individual sub-system documentation
  - Updates for European strategy
- ❖ Subsystem sections will be primarily the responsibility of L2 managers
  - Of course, can delegate specific pieces as you see fit
  - Should already start thinking about how to organize your area, and find sub-editors as needed
  - Target is probably 10-20 pages per sub-system depending upon complexity (e.g.: ITK may be longer)
- ❖ CDR is not a project execution plan, and as far as I understand now, will not have costs/effort tables/detailed deliverable timelines
  - although phase1 CDR did have a high-level installation schedule focusing on tech. coordination aspects
- ❖ CDR may discuss major options (HGTD), key decisions (ITK layout, L0/L1 split), possibly decision making process. This needs more thought



# Tentative timeline

This has not been approved by US ATLAS management,  
but I don't think we have a lot of leeway here.

## ❖ These are deadlines

- 1 August - define technical layout (SVN, LaTeX templates), rough outline, send instructions to Level2 managers (already late thanks to ICHEP...)
- mid-August - identify all main section authors
- 1 September - complete detailed subsection outline, define scope in each area
- mid-late September - first draft of subsystem chapters
  - something in each section, key tables/figures identified
  - much may be copy/paste, but gives idea of contents, can start balancing
  - start to review content - check for missing pieces/overlaps/...
- mid-October - complete draft for each subsystem chapter, intro sections available
  - complete/coherent text in each section, no missing pieces
  - may still need some balancing of style/length/content between sections
  - start final text review
- 1 November - final harmonized draft assembled
  - 2 weeks for final editing/final internal review
- 15 November - final draft done



# Next Steps

- ❖ I am working on the technical layout, rough outline for overall paper, reviewing DOE rules for CDR
- ❖ You should be thinking about your subsystem topics/outline
- ❖ Start to identify likely sub-section editors
  - I will be sending out more formal instructions next week, but you don't need to wait for me...
- ❖ August ITK scrubbing presents a good opportunity to discuss detailed outline and scope, particularly for ITK
  - should come out of that meeting ready to hand out detailed writing assignments